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(54) **SEMICONDUCTOR INTEGRATED CIRCUIT
DEVICE**

voltages, V_{CC} and V_{SS} respectively, preventing the increase of the access delay.

(57) Abstract:

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PURPOSE: To prevent the increase of access delay while reducing the current consumption at the time of standby cycles by setting the voltage level of a sub-power source voltage line in accordance with a reference voltage using a voltage setting circuit.

CONSTITUTION: When, at the time of stand-by cycles, the operation cycle regulating signals ϕ_1 , ϕ_2 are at the H- and L-levels respectively, the p transistor (TR) Q1 and nTR Q2 are conducting, and the voltage of the sub-power source line 2 is higher than a reference voltage V_{ref1} outputted by the reference voltage generator circuit 10, the voltage is set at V_{ref1} by the differential amplifier of the voltage setting circuit. Similarly, the voltage of the sub-power source line 4 is set at a reference voltage V_{ref2} . Consequently, the pTR and nTR of the inverters f_1 to f_3 are controlled and the sub-threshold current is reduced, resulting in the decrease of current consumption at the time of standby cycles. Similarly at the time of operating cycles, the operating voltages immediately change from reference voltages, V_{ref1} and V_{ref2} , to power source

